

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1036855

Luminaire Tested: UHBS2-4860-L8C5-LOW-N-6500K

Issue Date: 5/30/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-430-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/30/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-4860-L8C5-LOW-N-6500K
Description: UHBS Selectable High Bay at LOW lumen, 6500K CCT settings with Narrow beam
Light Source: -
Ballast/Driver: -

Summary

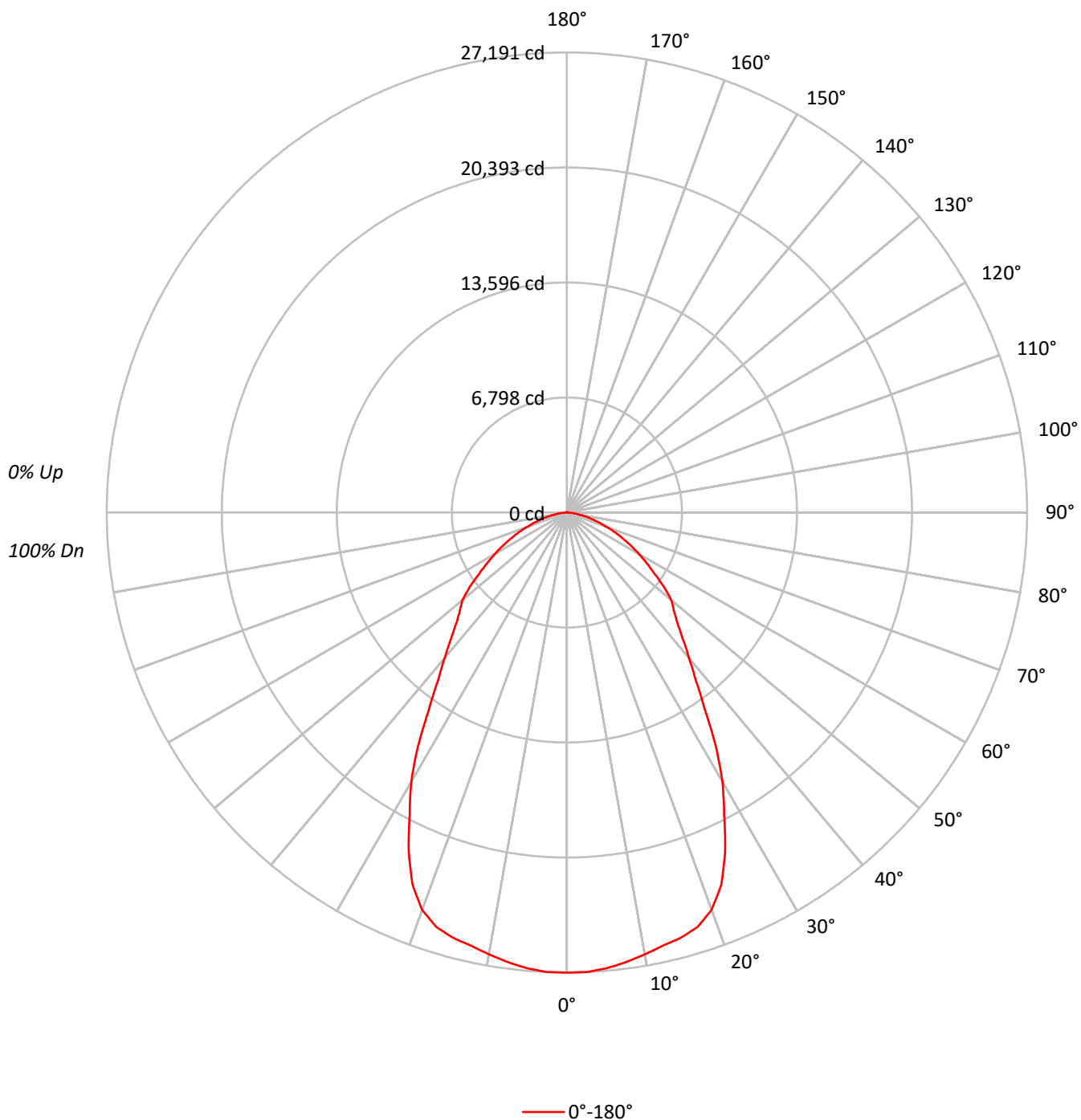
Lumens per Lamp: N/A
Luminaire Lumens: 47645.0 lumens
Efficiency: N/A
Efficacy: 150.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 316.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9972
Total Harmonic Distortion (THDi): 3.5666
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	104	101	98	100	98	95		96	94	92		93
2	102	95	90	85	100	94	88	84	90	86	82		87	83	80		84
3	95	86	79	73	92	84	78	72	81	76	71		79	74	70		76
4	88	77	70	64	86	76	69	63	74	68	63		71	66	62		69
5	82	70	62	57	80	69	62	56	67	61	56		65	60	55		64
6	76	64	56	51	74	63	56	50	62	55	50		60	54	50		59
7	71	59	51	46	70	58	51	46	57	50	45		55	49	45		54
8	67	55	47	42	65	54	47	41	53	46	41		51	45	41		50
9	63	51	43	38	61	50	43	38	49	42	38		48	42	38		47
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	134157
5°	133904
10°	132852
15°	132914
20°	131228
25°	120446
30°	104725
35°	85504
40°	72291
45°	64306
50°	61769
55°	54508
60°	48691
65°	42793
70°	36439
75°	29791
80°	23358
85°	16637

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 64306 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2564.0	5.4
10°-20°	7327.5	15.4
20°-30°	10060.2	21.1
30°-40°	9001.3	18.9
40°-50°	7238.4	15.2
50°-60°	5730.0	12.0
60°-70°	3649.2	7.7
70°-80°	1686.7	3.5
80°-90°	364.5	0.8
90°-100°	0.2	0.0
100°-110°	0.5	0.0
110°-120°	0.8	0.0
120°-130°	1.5	0.0
130°-140°	3.2	0.0
140°-150°	5.0	0.0
150°-160°	5.5	0.0
160°-170°	4.7	0.0
170°-180°	1.9	0.0
0°-30°	19951.8	41.9
0°-40°	28953.0	60.8
0°-60°	41921.4	88.0
0°-90°	47621.8	100.0
90°-120°	1.6	0.0
90°-150°	11.3	0.0
90°-180°	23.0	0.0
0°-180°	47645.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	27191	
5°	27037	###
15°	26022	7328
25°	22125	10060
35°	14196	9001
45°	9216	7238
55°	6337	5730
65°	3666	3649
75°	1563	1687
85°	294	353
90°	2	11
95°	0	0
105°	0	1
115°	1	1
125°	2	2
135°	4	3
145°	8	5
155°	12	6
165°	17	5
175°	20	2
180°	21	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	27191.3
2.5°	27186.3
5°	27036.8
7.5°	26805.9
10°	26517.8
12.5°	26216.4
15°	26021.5
17.5°	25678.9
20°	24993.7
22.5°	23818.9
25°	22125.1
27.5°	20117.2
30°	18382.3
32.5°	16378.6
35°	14196.1
37.5°	12513.2
40°	11224.2
42.5°	10140.1
45°	9216.3
47.5°	8567.2
50°	8047.4
52.5°	7235.3
55°	6336.8
57.5°	5605.4
60°	4934.4
62.5°	4274.4
65°	3665.5
67.5°	3096.2
70°	2526.0
72.5°	2023.8
75°	1562.8
77.5°	1142.1
80°	822.1
82.5°	555.1
85°	293.9
87.5°	79.8
90°	1.7
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.8
110°	0.8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.8
115°	0.8
117.5°	0.8
120°	0.8
122.5°	1.7
125°	1.7
127.5°	1.7
130°	2.5
132.5°	3.4
135°	4.2
137.5°	5.0
140°	5.9
142.5°	6.7
145°	8.4
147.5°	9.2
150°	10.1
152.5°	10.9
155°	11.8
157.5°	13.4
160°	14.3
162.5°	16.0
165°	16.8
167.5°	17.6
170°	18.5
172.5°	19.3
175°	20.2
177.5°	20.2
180°	21.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	24.93	26.36	25.29	26.67	26.99	24.93	26.36	25.29	26.67	26.99
	3H	26.21	27.49	26.59	27.82	28.18	26.21	27.49	26.59	27.82	28.18
	4H	26.59	27.79	26.99	28.14	28.52	26.59	27.79	26.99	28.14	28.52
	6H	26.81	27.91	27.22	28.28	28.68	26.81	27.91	27.22	28.28	28.68
	8H	26.86	27.91	27.29	28.30	28.71	26.86	27.91	27.29	28.30	28.71
	12H	26.88	27.89	27.32	28.27	28.70	26.88	27.89	27.32	28.27	28.70
4H	2H	25.38	26.57	25.78	26.93	27.31	25.38	26.57	25.78	26.93	27.31
	3H	26.84	27.83	27.25	28.23	28.64	26.84	27.83	27.25	28.23	28.64
	4H	27.32	28.21	27.75	28.62	29.07	27.32	28.21	27.75	28.62	29.07
	6H	27.62	28.39	28.09	28.84	29.30	27.62	28.39	28.09	28.84	29.30
	8H	27.70	28.42	28.17	28.87	29.34	27.70	28.42	28.17	28.87	29.34
	12H	27.75	28.38	28.23	28.87	29.34	27.75	28.38	28.23	28.87	29.34
8H	4H	27.47	28.18	27.93	28.63	29.10	27.47	28.18	27.93	28.63	29.10
	6H	27.85	28.43	28.35	28.93	29.41	27.85	28.43	28.35	28.93	29.41
	8H	27.97	28.50	28.49	29.01	29.50	27.97	28.50	28.49	29.01	29.50
	12H	28.05	28.52	28.57	29.01	29.58	28.05	28.52	28.57	29.01	29.58
12H	4H	27.46	28.10	27.94	28.58	29.05	27.46	28.10	27.94	28.58	29.05
	6H	27.85	28.38	28.37	28.89	29.38	27.85	28.38	28.37	28.89	29.38
	8H	28.01	28.48	28.53	28.97	29.54	28.01	28.48	28.53	28.97	29.54